

1 ATGGCGGACATTTTCGACCACCCAGGCTTGGCAAGACCTGACCGATCATTACTCAAACCTTC 60
 M A D I S T T Q A W Q D L T D H Y S N F
 61 CAGGCAACCACTCTGCGTGAACCTTTTCAAGGAAGAAAACCGCGCCGAGAAGTACACCTTC 120
 Q A T T L R E L F K E E N R A E K Y T F
 121 TCCGCGGCTGGCCTCCACGTCGACCTGTCGAAGAATCTGCTTGACGACGCCACCCTCACC 180
 S A A G L H V D L S K N L L D D A T L T
 181 AAGCTCCTTGCACTGACCGAAGAATCTGGCCTTCGCGAACGCATTGACGCGATGTTTGCC 240
 K L L A L T E E S G L R E R I D A M F A
 241 GGTGAACACCTCAACAACACCGAAGACCGCGCTGTCCTCCACACCGCGCTGCGCCTTCCT 300
 G E H L N N T E D R A V L H T A L R L P
 301 CCCGAAGCTGATCTGTCAGTAGATGGCCAAGATGTTGCTGCTGATGTCCACGAAGTTTTG 360
 P E A D L S V D G Q D V A A D V H E V L
 361 GGACGCATGCGTGACTTCGCTACTGCGCTGCGCTCAGGCAACTGGTTGGGACACACCGGC 420
 G R M R D F A T A L R S G N W L G H T G
 421 CACACGATCAAGAAGATCGTCAACATTGGTATCGGTGGCTCTGACCTCGGACCAGCCATG 480
 H T I K K I V N I G I G G S D L G P A M
 481 GCTACGAAGGCTCTGCGTGATACGCGACCGCTGGTATCTCAGCAGAATTCGTCTCCAAC 540
 A T K A L R A Y A T A G I S A E F V S N
 541 GTCGACCCAGCAGACCTCGTTTCTGTGTTGGAAGACCTCGATGCAGAATCCACATTGTTTC 600
 V D P A D L V S V L E D L D A E S T L F

FIG.1A

601 GTGATCGCTTCGAAAAC TTTTACCACCCAGGAGACGCTGTCTAACGCTCGTGCAGCTCGT
 -----+-----+-----+-----+-----+-----+ 660
 V I A S K T F T T Q E T L S N A R A A R
 661 GCTTGGCTGGTAGAGAAGCTCGGTGAAGAGGCTGTCGCGAAGCATTTCGTCGCAGTGTCC
 -----+-----+-----+-----+-----+-----+ 720
 A W L V E K L G E E A V A K H F V A V S
 721 ACCAATGCTGAAAAGGTCGCAGAGTTCGGTATCGACACGGACAACATGTTCCGGCTTCTGG
 -----+-----+-----+-----+-----+-----+ 780
 T N A E K V A E F G I D T D N M F G F W
 781 GACTGGGTCGGAGGTCGTTACTCCGTGGACTCCGCAGTTGGTCTTTCCTCATGGCAGTG
 -----+-----+-----+-----+-----+-----+ 840
 D W V G G R Y S V D S A V G L S L M A V
 841 ATCGGCCCTCGCGACTTCATGCGTTTCCTCGGTGGATTCCACGCGATGGATGAACACTTC
 -----+-----+-----+-----+-----+-----+ 900
 I G P R D F M R F L G G F H A M D E H F
 901 CGCACCACCAAGTTCGAAGAGAACGTTCCAATCTTGATGGCTCTGCTCGGTGTCTGGTAC
 -----+-----+-----+-----+-----+-----+ 960
 R T T K F E E N V P I L M A L L G V W Y
 961 TCCGATTTCTATGGTGCAGAAACCCACGCTGTCCTACCTTATTCCGAGGATCTCAGCCGT
 -----+-----+-----+-----+-----+-----+ 1020
 S D F Y G A E T H A V L P Y S E D L S R
 1021 TTTGCTGCTTACCTCCAGCAGCTGACCATGGAATCAAACGGCAAGTCAGTCCACCGCGAC
 -----+-----+-----+-----+-----+-----+ 1080
 F A A Y L Q Q L T M E S N G K S V H R D
 1081 GGCTCCCCTGTTTCCACTGGCACTGGCGAAATTTACTGGGGTGAGCCTGGCACAAATGGC
 -----+-----+-----+-----+-----+-----+ 1140
 G S P V S T G T G E I Y W G E P G T N G
 1141 CAGCACGCTTTCTTCCAGCTGATCCACCAGGGCACTCGCCTTGTTCCAGCTGATTTTCATT
 -----+-----+-----+-----+-----+-----+ 1200
 Q H A F F Q L I H Q G T R L V P A D F I

FIG.1B

1201 GGTTCGCTCGTCCAAAGCAGGATCTTCCTGCCGGTGAGCGCACCATGCATGACCTTTTG 1260
 -----+-----+-----+-----+-----+-----+
 G F A R P K Q D L P A G E R T M H D L L
 1261 ATGAGCAACTTCTTCGCACAGACCAAGGTTTTGGCTTTTCGGTAAGAACGCTGAAGAGATC 1320
 -----+-----+-----+-----+-----+-----+
 M S N F F A Q T K V L A F G K N A E E I
 1321 GCTGCGGAAGGTGTCGCACCTGAGCTGGTCAACCACAAGGTCATGCCAGGTAATCGCCCA 1380
 -----+-----+-----+-----+-----+-----+
 A A E G V A P E L V N H K V M P G N R P
 1381 ACCACCACCATTTTGGCGGAGGAACCTACCCCTTCTATTCTCGGTGCGTTGATCGCTTTG 1440
 -----+-----+-----+-----+-----+-----+
 T T T I L A E E L T P S I L G A L I A L
 1441 TACGAACACATCGTGATGGTTCAGGGCGTGATTTGGGACATCAACTCCTTCGACCAATGG 1500
 -----+-----+-----+-----+-----+-----+
 Y E H I V M V Q G V I W D I N S F D Q W
 1501 GGTGTTGAACTGGGCAAACAGCAGGCAAATGACCTCGCTCCGGCTGTCTCTGGTGAAGAG 1560
 -----+-----+-----+-----+-----+-----+
 G V E L G K Q Q A N D L A P A V S G E E
 1561 GATGTTGACTCGGGAGATTCTTCCACTGATTCACTGATTAAGTGGTACCGCGCAAATAGG 1620
 -----+-----+-----+-----+-----+-----+
 D V D S G D S S T D S L I K W Y R A N R
 TAG
 1621 --- 1623

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FIG.1C